PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applican	t's or agent's file reference	FOR FURTHER ACTION	See Form PCT/IPEA/416
AMG:	172WO	FOR FURTHER ACTION	
	onal application No.	International filing date (day/mo	
PCT,	/EP2004/002906	19.03.2004	19.03.2003
Internation	onal Patent Classification (IPC) or na	tional classification and IPC	
		•	
Applican	ıt		
AMI	AGROLINZ MELAMIN	E INTERNATIONAL	GMBH
,	This are at its the interestional and	incipant argumentian apport patable	shed by this International Preliminary Examining Authority
1.	under Article 35 and transmitted to	the applicant according to Article 3	spired by this international Fremiliary Examining Authorny
2.	This REPORT consists of a total of	6 s	neets, including this cover sheet.
3.	This report is also accompanied by		
i	· • •		al of sheets, as follows: the have been amended and are the basis for this report and/or
			hority (see Rule 70.16 and Section 607 of the Administrative
	sheets which supe	rsede earlier sheets, but which this	Authority considers contain an amendment that goes beyond
	the disclosure in t Box.	he international application as filed	as indicated in item 4 of Box No. I and the Supplemental
	b (sent to the International	il Bureau only) a total of (indicate ty	be and number of electronic carrier(s))
			, containing a sequence listing and/or tables
	related thereto, in comput Section 802 of the Admin		in the Supplemental Box Relating to Sequence Listing (see
4.	This report contains indications rela	nting to the following items:	
	Box No. I Basis of t	he report	
	Box No. II Priority		
		15 house of the college are and an	and the second control of the second control
1		distinct of opinion with regard to	novelty, inventive step and industrial applicability
		nity of invention	
		statement under Article 35(2) with and explanations supporting such st	regard to novelty, inventive step or industrial applicability; atement
	Box No. VI Certain de	ocuments cited	
1	Box No. VII Certain d	efects in the international applicatio	, n
1		hservations on the international app	
Date of	submission of the demand	Date of co	ompletion of this report
Name and mailing address of the IPEA/EP Authorize			ed officer
		. ,	
Facsimi	le No.	Telephon	ė No.

Translation

International application No.
PCT/EP2004/002906

Box	No. I	Basis of the report						
1.	With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.							
		This report is based on translations from the original languable which is the language of a translation furnished for the pur	This report is based on translations from the original language into the following language					
		international search (Rule 12.3 and 23.1(b))						
4,00		publication of the international application (Rule 12.	4)					
		international preliminary examination (Rule 55.2 and/or 55.3)						
2.	rece	regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the ving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to eport):						
		the international application as originally filed/furnished						
	\boxtimes	the description:						
		pages 1-19	as originally filed/furnished					
		pages*						
		pages*	<u> </u>					
	\square		received by this / Millority on					
		the claims:						
		nos. <u>1-11</u>						
		nos.*	as amended (together with any statement) under Article 19					
		nos.*	received by this Authority on					
		nos.*	received by this Authority on					
		the drawings:						
		sheets	as originally filed/furnished					
		sheets*	received by this Authority on					
		sheets*						
		a sequence listing and/or any related table(s) - see Suppler						
3.		The amendments have resulted in the cancellation of:	The amendments have resulted in the cancellation of:					
		the description, pages						
		the claims, nos.						
		the drawings, sheets figs the sequence listing (specify):						
4.		any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).						
	·	the description, pages	•					
		the claims, nos.						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	Iĵ ite	em 4 applies, some or all of those sheets may be marked "su	perseded."					

International application No.
PCT/EP2004/002906

Во	x No. II	Priority
1.	This reque	report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the sted:
	\boxtimes	copy of the earlier application whose priority has been claimed (Rule 66.7(a)).
		translation of the earlier application whose priority has been claimed (Rule 66.7(b)).
2.	This (Rule	report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.
3.	Additional	observations, if necessary:
		·

International application No.
PCT/EP2004/002906

Box	No. V			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement				
	Novelty	(N)	Claims	1-11	YES
			Claims		NO
	Inventiv	e step (IS)	Claims	1-11	YES
			Claims		NO
	Industria	al applicability (IA)	Claims	1-11	YES
			Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: EP-A-1 279 686 (AGROLINZ MELAMIN GMBH)

29 January 2003 (2003-01-29)

D2: US-A-5 206 066 (HORACEK HEINRICH)

27 April 1993 (1993-04-27).

1. Novelty:

Document **D1** discloses (see claim 1) a polymer which is prepared by reacting an aminotriazine ether (components A1 and A2) with a di-isocyanate (component B1). Document **D1** further discloses that the ratio of the triazine monomer to the di-isocyanate is 60:40, which implies that the ratio claimed in the present claim 1 must pertain.

D1 also discloses (see claim 10) the use of said polymers for impregnating support materials in the textile industry, namely for impregnating fibres. In this regard, it should be noted that a fibre thus impregnated must correspond to line 2 of the present claim 1 and a textile consisting of such fibres can be considered a prepeg.

International application No.
PCT/EP2004/002906

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The feature that distinguishes the subject matter of the present claims from the disclosures of D1 is that the present application claims the use of an aminotriazene ether which is not disclosed in D1. The difference in the structures is to be found in the substituents, at least one of which in D1 must have an NH-CH2-CHR, that is to say a -CH2- group, which cannot be the case in the aminotriazene ethers claimed in the present claim 1.

Document **D2** (see claim 1) discloses prepregs which are prepared using a polymer, said polymer being prepared by reacting an aminotriazene ether with a diol.

The difference between the disclosures according to the subject matter of the present application and those of D2 is that the present application claims conversion using an isocyanate.

For the above reason, the subject matter of the present claims is novel (PCT Article 33(2)).

2. Inventive step:

Since D2 is directed to the enhancement of the mechanical properties of prepegs, D2 must be considered to be the closest prior art.

/ . . .

International application No.
PCT/EP2004/002906

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

In relation to the teaching of D1, the objective problem can be considered to be that of providing a prepeg with enhanced mechanical properties.

Since neither D1, nor any other known document, suggests that using isocyanates in the preparation of prepegs results in enhanced mechanical properties of the finished prepegs, the subject matter of the claims in the present application involves an inventive step (PCT Article 33(3)).